CDF PROC -12	"Sign-Off Procedure Required before Powering the CDF Toroids	
	May 26, 1992 3:50 PM	

# **Sign-Off Procedure Required** before Powering the CDF Toroids (this is a Safety Procedure)

(Accelerator Division Head)

	e outlines the steps to be taken to gain approposering the CDF Toroids.	ovai
Approvals:		
(RD/CE	DF Department Head )	( Date )
(Resea	arch Division Head )	( Date )

(Date)

#### 1.0 Controlled Copies of this procedure.

Four controlled copies of this procedure will exist:

- 1. At the desk of the CDF Operations Electrical Group Leader in the CDF Assembly Building
- 2. In the RD / CDF Department Office
- 3. In the Research Division Office
- 4. In the Accelerator Division Office

All other copies will be marked, "INFORMATIONAL COPY ONLY"

#### 2.0 The Procedure

The CDF Operations Electrical Group Leader ( or trained designee ) must execute this procedure and the associated checklist whenever the Toroids are to be powered for the first time after any of the following situations:

- 1) Any Collider Installation period.
- 2) Any extended Collider Shutdown or Standby period.

  "Extended" is defined here as greater than 30 days.
- 3) Any Collider Run Access period when work is done on the Toroids, the water cooling system for the Toroids, the Toroid coils, the Toroid Power Supply system, the Toroid noise filter system.

MOTE: The CDF Operations Electrical Group Leader enforces the execution of the procedure by administrative lock out / tag out of the Toroid Power Supply at the begining of the access, shutdown, or installation period.

#### The procedure steps:

- 1. The CDF Operations Electrical Group Leader should complete a copy of the checklist in section 3.0 of this document.
- After completing the checklist, the CDF Operations Electrical Group Leader obtains the CDF Department Head's signature before powering the CDF Toroids.
- 3. The CDF Operations Electrical Group Leader distributes copies of the checklist as follows:
  - a) the original check list is placed in the CDF Department Office in the "Operational Readiness Clearance" documentation,
  - b) one copy of the completed check list is posted on the side of the Toroid Power Supply,
    - c) one copy is placed in the CDF Experiment logbook,
    - d) one copy is placed in the CDF Department Office copy of this procedure.

e) one copy is sent to the CDF High Current Power Supply Review Committee.

## 3.0 Checklists

The "Procedure Execution Form", or "Checklist", is on the following page. Copies of the checklist can be found inside the front pocket of this procedure.

CDF F	PROC -12 "Sign-Off Procedure Required before Power May 26, 1992 3:50 PM	ing the CDF Toroids
	CDF Toroids: Initial Power On Author	orization
1.	Alignment Survey of Toroid is complete.	
	( CDF Operations Mechanical Group Leader )	
2.	Authorization is in place in the "CDF Operational R Clearance" documentation from the CDF " Hig Power Supply Review Committee".	
	( CDF Operational Electrical Group Leader )	
3.	CDF PROC - 501 "Toroid System Inspection Check has been properly executed.	dist Procedure"
	( CDF Operations Electrical Group Leader )	
4.	CDF PROC - 502 "Toroid Power Supply LCW Chec has been properly executed.	klist Procedure"
	( CDF Operations Electrical Group Leader )	
5.	CDF PROC - 503 " CDF Toroid Power Supply Turn- has been completed up to the point of remove Supply lock	
	( CDF Operations Electrical Group Leader )	
СОММ	IENTS:	
Check	klist completed by:	_Date:

CDF PROC -12 "Sig	ign-Off Procedure Required before Powering the CDF Toroids		
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Permission for Toroid			
Power On given by:		Date:	
	(CDF Department Head)	<u> </u>	

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## 4.0 Deviations

None are allowed.

#### 5.0 Required Training and Authorized Training Personnel.

CDF Department Heads are authorized instructors. Training consists of reading this procedure with a department head.

The training should be documented on a standard Fermilab Training Form and the Training Expiration date should be tied to the end date of the Collider Run (e.g. "the end of Collider Run Ia").

The completed forms must be inserted in the CDF Department Office copy of this procedure.

# 6.0 Training Materials.

Section 2.0 of this procedure.

No additional written materials exist.

#### 7.0 List of Trained People for this procedure.

Eventually the list may reside in a lab-wide database.

Until that time, a list of trained personnel for this procedure should be kept in the CDF Department copy of the procedure in a separate section at the end of the procedure.

## 8.0 References and Supporting Documentation.

none.